

ABSTRACT OF THE DISCLOSURE

An antenna module includes a dielectric substrate mounted in a housing of a portable electronic apparatus and having a grounding layer that extends parallel to a mounting surface and that is connected electrically to first and second contacts on the mounting surface via first and second conductive vias formed in the substrate and extending from the mounting surface to the grounding layer, respectively. A radiating element is disposed on the mounting surface of the substrate and is connected electrically to the first contact. A conductive grounding member is mounted detachably on the mounting surface of the substrate, and has a first section that is connected electrically to the second contact, and a second section connected electrically to the first section and spaced apart from the radiating element in a direction transverse to the mounting surface of the substrate.